

H.A

Notice of Allowability

Application No.

10/749,487

Applicant(s)

GHABRA ET AL.

Examiner

Thuy V. Tran

Art Unit

2821

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to amendment submitted 03/10/2006.
2. ☒ The allowed claim(s) is/are 1-4, 6-18 and 20.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

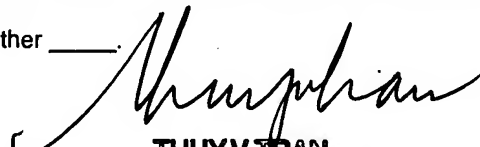
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date 01/30/2006
4. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413),
Paper No./Mail Date _____
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____


THUY V. TRAN
PRIMARY EXAMINER

DETAILED ACTION

This is a response to the Applicants' amendment submitted on 03/10/2006. In virtue of this amendment:

- Claims 5 and 19 are canceled; and thus,
- Claims 1-4, 6-18, and 20 are now presented in the instant application.

Allowable Subject Matter

1. Claims 1-4, 6-18, and 20 are allowed.

Reasons for Allowance

2. The following is an examiner's statement of reasons for allowance:

Prior art fails to disclose or fairly suggest:

- A low profile antenna for use in a vehicle remote communication system utilizing a predetermined RF signal comprising a transmission line having a first and second signal conductors, said first conductor being coupled to a feed point on said lineal antenna trace and said second conductor being coupled to both said ground plane and a second point on said lineal antenna trace spaced apart from said feed point, wherein said antenna is an active antenna further comprising a plurality of active components mounted on a second side of said printed circuit board, and wherein said first conductor is coupled to at least one of said active components, in combination with the remaining claimed limitations as called for in independent claim 1 (claims 2-4 and 6-12 are allowed since they are dependent on claim 1);
- A low profile antenna for use in a vehicle remote communication system utilizing a predetermined RF signal comprising a transmission line having a first and second

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signal conductors, said first conductor being coupled to a feed point on said lineal antenna trace and said second conductor being coupled to both said ground plane and a second point on said lineal antenna trace spaced apart from said feed point, wherein said feed point and said second point of said lineal antenna trace are spaced apart by a predetermined distance less than one quarter wavelength of said RF signal, in combination with the remaining claimed limitations as called for in independent claim 13 (claims 14-18 are allowed since they are dependent on claim 13); and

- A low profile antenna for use in a vehicle remote communication system utilizing a predetermined RF signal comprising a transmission line having a first and second signal conductors, said first conductor being coupled to a feed point on said lineal antenna trace and said second conductor being coupled to both said ground plane and a second point on said lineal antenna trace spaced apart from said feed point, wherein said feed point is located at one of said first and second end regions and said second point is located at said middle region, and wherein said feed point and said second point are spaced apart by a predetermined distance less than one quarter wavelength of said RF signal, in combination with the remaining claimed limitations as called for in independent claim 20.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Inquiry

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thuy V. Tran whose telephone number is (571) 272-1828. The examiner can normally be reached on M-F (8:00 AM -4:00 PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Timothy P. Callahan can be reached on (571) 272-1740. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

03/19/2006

A handwritten signature in black ink, appearing to read 'Thuy V. Tran', is written over a light gray grid background.

**THUY V. TRAN
PRIMARY EXAMINER**